

CLAIM AMENDMENT

Claims 1 to 10. (canceled)

11. (new) A multiple stage of flat board type brushless Direct Current (BLDC) motor that consists of more than one unit of the flat board type BLDC motor, the multiple BLDC motor is comprising:

a pair of end stators consisted of an annular disk-shaped stator core (3) and a plurality of teeth cores (4) with winding coils installed on one side of said annular disk-shaped stator core (3) at constant intervals,

a dual stator consisted of the annular disk-shaped stator core (3) and the plurality of teeth cores (4) with winding coils installed on both sides of said annular disk-shaped stator core (3) at constant intervals,

a dual rotor consisted of an annular disk-shaped rotor actuator (14) installed multiple rotor teeth (13), an annular disk-shaped short circuit (11) attached to said annular disk-shaped rotor actuator (14), wherein said annular disk-shaped rotor actuator (14) and said annular disk-shaped short circuit (11) are attached to both side of a circular disk-shaped rotor frame (5) for facing to the neighbored teeth cores (3),

a common shaft (8) for mounting said dual rotor including a set of bearings (9), and

a common housing frame for enveloping the pair of end stators, said dual stator and said dual rotor mounted on the common shaft.

12. (new) A multiple stage of BLDC motor as claimed in Claim 11, wherein said annular disk-shaped stator cores (3) further comprises multiple of paired slots (3b) with a center fixture (3a) at constant intervals along with a circumference of the annular disk-shaped stator

cores (3) either an inward opening or an outward opening along the circumference of the stator cores (3) for inserting said teeth core (4).

13. (new) A multiple stage of BLDC motor as claimed in Claim 12, wherein said teeth cores (4) comprises multiple of flat lamination layers forming a constant thickness, said teeth cores (4) inserted into said paired slots (3b) with the center fixture (3a) through said inner opening opened to inner circumference of the stator cores (3) or said outer opening opened to outer circumference of the stator cores (3).

14. (new) A multiple stage of BLDC motor as claimed in Claim 11, wherein said annular disk-shaped rotor actuator (14) is formed multiple of flat lamination layers with a constant thickness, said rotor teeth core (13) is formed multiple of flat lamination layers with winding coils, said annular disk-shaped short circuit (11) having multiple of rectangular-shaped cutout slots at constant intervals for partially exposing the rotor teeth cores (13), and said annular disk-shaped short circuit (11) is made of aluminum die-casting or copper.

15. (new) A multiple stage of BLDC motor as claimed in Claim 14, wherein said annular disk-shaped rotor core (13a) further comprise multiple of paired slots with a center fixture at constant intervals along with a circumference of the annular disk-shaped rotor core (13a) with inward or outward openings for inserting said rotor teeth (13), and said annular disk-shaped rotor core (13a) containing insulating material layers for insulating said annular disk-shaped short circuit (11).

16. (new) A multiple stage of BLDC motor as claimed in Claim 15, wherein said rotor teeth (13) are inserted into the paired slots with the center fixture through said inner opening.

opened to inner circumference of said annular disk-shaped rotor core or outer opening opened to outer circumference of said annular disk-shaped rotor core.

17. (new) A multiple stage of BLDC motor as claimed in Claim 11, wherein said rotor teeth (13) installed on said annular disk-shaped rotor actuator (14) can be replaced to a set of permanent magnets for facing to the neighbored stator teeth core (4).

18. (new) A multiple stage of BLDC motor as claimed in Claim 11, wherein said common shaft (8) is mounted more than one dual rotor and dual stator for increasing motor output torque.